

Title (en)
Automatic brake control system

Title (de)
Selbsttätige Bremssteueranlage

Title (fr)
Système automatique de commande de freinage

Publication
EP 0941903 A2 19990915 (EN)

Application
EP 99104889 A 19990311

Priority
JP 6157998 A 19980312

Abstract (en)
An automatic brake control system (12, 31) of a vehicle for automatically applying brake when said vehicle comes near to an obstacle ahead comprises an own vehicle speed detecting means (8, 17) for detecting a speed of the vehicle, a distance detecting means (13, 15, 16) for detecting a distance between the own vehicle and the obstacle, an obstacle speed calculating means (16) for calculating a speed of the obstacle based on the speed of the vehicle and the distance between the vehicle and the obstacle, a stop control judging means (20) for making a comparison of the distance between the vehicle and the obstacle with a threshold distance, a target deceleration establishing means (22, 23, 24, 25) based on the comparison for establishing a target deceleration to a first deceleration (α 1) when the distance is smaller than the threshold distance (L_{lim}) and to a second deceleration (α 2) when the distance is larger than the threshold distance (L_{lim}) and a brake drive controlling means (26, 27, 28) for performing a deceleration control so as to generate a brake fluid pressure corresponding to the target deceleration in a brake drive apparatus.
<IMAGE>

IPC 1-7
B60T 7/22; **B60T 7/04**; **B60T 13/68**

IPC 8 full level
B60R 21/00 (2006.01); **B60K 31/00** (2006.01); **B60T 7/04** (2006.01); **B60T 7/12** (2006.01); **B60T 7/22** (2006.01); **B60T 8/172** (2006.01); **B60W 30/00** (2006.01)

CPC (source: EP US)
B60K 31/0008 (2013.01 - EP US); **B60T 7/042** (2013.01 - EP US); **B60T 7/22** (2013.01 - EP US); **B60W 2510/0604** (2013.01 - EP US); **B60W 2540/12** (2013.01 - EP US); **B60W 2540/18** (2013.01 - EP); **B60W 2552/15** (2020.02 - EP US); **B60W 2552/40** (2020.02 - EP US); **B60W 2720/106** (2013.01 - EP US)

Citation (applicant)
• JP H06144169 A 19940524 - TOYOTA MOTOR CORP
• JP H082274 A 19960109 - FUJI HEAVY IND LTD

Cited by
US7278505B2; CN100393562C; CN111204319A; EP1346892A3; CN113613966A; EP2902291A1; ES2192906A1; CN112046473A; US9656667B2; US6571165B2; US7102495B2; WO0214128A3; WO02083470A1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 0941903 A2 19990915; **EP 0941903 A3 20010314**; **EP 0941903 B1 20040218**; DE 69914815 D1 20040325; DE 69914815 T2 20050113; DE 69942638 D1 20100909; EP 1405753 A2 20040407; EP 1405753 A3 20040414; EP 1405753 B1 20100728; JP H11255089 A 19990921; US 6056374 A 20000502

DOCDB simple family (application)
EP 99104889 A 19990311; DE 69914815 T 19990311; DE 69942638 T 19990311; EP 03026615 A 19990311; JP 6157998 A 19980312; US 26093099 A 19990302